

FINAL Former Naval Station Treasure Island Restoration Advisory Board (RAB) Meeting Minutes

Meeting 194 19 June 2018

Community Restoration Advisory Board (RAB) Members in attendance:

Nathan Brennan, John Gee, Becky Hogue, Alice Pilram, Dale Smith

Department of the Navy and Regulatory Agency RAB Members in attendance:

Juanita (Nina) Bacey, California Department of Toxic Substances Control (DTSC) Rebecca Cardoso, Navy Base Realignment and Closure (BRAC) Environmental Coordinator

Katrina Kaiser, Regional Water Quality Control Board (Water Board)

Other Navy, Regulatory Staff, and Consultant Representatives in attendance:

Dave Clark, Navy Lead Remedial Project Manager

John Guenza, Adanta, Inc.

Marsha Maloof, Maloof & Associates

Kimberly Noble, Navy Radiological Affairs Support Office (RASO)

Lee Saunders, Navy

Joe Schwennesen, Adanta, Inc.

Kimberly Walsh, DTSC

Shirley Golub, PDA-CA

Chris Yantos, Navy

Public Guests in attendance:

Shivani Ananth, Greenaction for Shelby Hall

Health and Environmental Justice Carol Harvey, journalist

(Greenaction) Martha Hubert, CODEPINK

Bob Beck, Treasure Island Robin Respaut, Reuters
Development Authority (TIDA) Jody Strait, KPFA Radio

Bart Berger Kazmi Torii

Clare Eigenbrade, Greenaction Melanie Williams, resident

Sheridan Noelani Enomoto, Rachel Witte, NBC Bay Area

Greenaction Steve Zeltzer, United Public Workers

Lotus Yee Fong, Sierra Club for Action

Welcome Remarks, Agenda Review, and RAB Discussion Items

Rebecca Cardoso (Navy Co-Chair) opened the June 2018 RAB meeting for Former Naval Station Treasure Island (NAVSTA TI), held at One Avenue of the Palms, in Building One, on Treasure Island (TI). Ms. Cardoso conducted a round of introductions. Marsha Maloof (Maloof & Associates) was introduced as the facilitator for the meeting. Ms. Maloof thanked everyone for attending and

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reviewed the purpose of the meeting, the agenda (Attachment A), and the opportunities for public comments or questions during the meeting.

Dale Smith (RAB member) said she had some RAB discussion items. Ms. Smith noted that one of the many consultants to the Navy, Tetra Tech, has come under recent scrutiny. Ms. Smith said she has never worked for Tetra Tech, but her professional interactions with them have been positive. She added she feels it is unfair to question an entire company the size of Tetra Tech based on the actions of some individual employees. Ms. Cardoso requested Ms. Smith focus on topics related specifically to RAB business. Ms. Maloof noted the RAB members may contact the Navy outside of this meeting to express concerns and interests. Ms. Smith said she prefers to give comments in a public forum where there is a court reporter capturing her comments and questions. If she cannot speak about them at a RAB meeting, then her only public forum is to contact the media. Ms. Smith said she is awaiting more information about the missing groundwater wells at Site 24 and more information about Site YF3.

Old Business—RAB Minutes Approval

Ms. Cardoso requested comments on the minutes for RAB meeting 193, held March 20, 2018. Ms. Smith provided minor edits and RAB members voted to finalize the minutes, pending incorporation of the edits.

Old Business—BRAC Cleanup Team (BCT) Update

Nina Bacey (DTSC) said DTSC recently submitted comments on the 2017 Basewide Groundwater Monitoring Report. DTSC is also finalizing its comments on the Finding of Suitability to Transfer (FOST) 7 and the related Covenant to Restrict the Use of Property (CRUP).

Katrina Kaiser (Water Board) said the Water Board also reviewed and submitted comments on the 2017 Basewide Groundwater Monitoring Report and FOST 7. In addition, the Water Board recently submitted comments on the Non-Time Critical Removal Action Work Plan for Site 12.

New Business—Citizen's Advisory Board (CAB) Update

Becky Hogue (RAB member) is also a member of the CAB, which is an advisory board to TIDA. Ms. Hogue provided updates from the most recent CAB meeting:

- The Treasure Island Homeless Development Initiative (TIHDI) was renamed "One Treasure Island."
- Construction on TI is progressing as planned and the development team has new staff members.
- The next TI subdivision map will be presented to the San Francisco Board of Supervisors in July 2018.
- The entrance to the Job Corps area was relocated due to construction.

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- Treasure Island Enterprises and the Treasure Island Sailing Center (TISC) have reached a compromise for TISC's future use of the marina. The area it uses will be much smaller than previously planned.
- The San Francisco Public Utilities Commission will finance, build, and operate the wastewater treatment plant on TI, and aims to have it operational by 2022.
- Many of the streets on TI will be renamed in honor of people and places from the Golden Gate International Exposition, also known as the World's Fair, which was held on TI from 1939 to 1941.
- August 7, 2018 is National Night Out, and there will be a large event on TI.

New Business—Radiological Program Update

Ms. Cardoso introduced Kimberly Noble (RASO) to provide the presentation (Attachment B). Ms. Noble said she would review past work, regulatory oversight and data validation, and planned future work on TI.

Ms. Noble explained that the Navy is addressing General Radioactive Material (G-RAM) at NAVSTA TI. Examples of G-RAM include radioluminescent paint, smoke detectors, and welding rods. G-RAM is not associated with nuclear weapons or testing and is not related to the Navy's nuclear propulsion program.

In 2006, the Navy prepared an Historical Radiological Assessment (HRA), which is a research document that presented a comprehensive radiological history of NAVSTA TI. The HRA identified areas where further radiological data were needed. Ms. Noble explained that areas where further investigation is needed are deemed "impacted." That does not mean there is contamination. It means those areas need to be investigated. The HRA identified four areas for further investigation: Building 233, Building 343, Building 344, and the Solid Waste Disposal Areas (SWDA) in Site 12. The buildings were associated with training and the SWDAs were areas of disposal.

Ms. Noble reviewed the investigations and data collection of these four areas. In addition, the Navy conducted additional research at the National Archives in San Bruno, and through review of Navy newsletters, cultural resource records, and Navy records. The Navy also conducted an additional review of all of the information used for the 2006 HRA. The additional data collected at these sites, along with the research, was documented in a 2014 document called the HRA Supplemental Technical Memorandum (HRASTM).

Ms. Noble showed a map (slide 6) where the Navy identified, in the HRASTM, areas for further investigation. Ms. Noble said updated areas for investigation, also referred to as impacted areas, comprise almost one third of TI. This is an aggressive approach, designed from an abundance of caution for public safety.

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Ms. Noble reviewed the radiological investigations completed since the 2014 HRASTM (slides 8 through 10). Those sites include Building 3, force main, wood stave pipe, Site 20, Site 30, Parcels 30 north and 30 south, and Site 31. In addition, Ms. Noble reviewed radiological investigation work that is currently under review by the California Department of Public Health (CDPH). This includes Parcel 2/Building 461, Site 6, Site 32 (structures), and Site 24. For these sites, the radiological investigation and remediation is complete and pending approval by CDPH.

Ms. Noble said Site 12 is the only site on NAVSTA TI where radiological investigations are ongoing. Ms. Noble said open space in Site 12 and all of the buildings within Site 12 have been radiologically scanned. CDPH was involved throughout the process of the scans and they conducted independent scanning and sampling. Ms. Noble said the Navy recovered 13 objects during the open space scans. She showed photographs of some of the objects (slide 15), noting that many are smaller than a dime.

Ms. Noble reviewed the planned radiological work remaining at Site 12. This includes additional data gathering in summer 2018; a Draft Feasibility Study Addendum in October 2018; a Final Feasibility Study Addendum in December 2018; and, in 2019 a Proposed Plan, public meeting, and then Record of Decision.

Ms. Noble reviewed the regulatory oversight and the process for validating data at NAVSTA TI. Ms. Noble said all the radiological data collected by contractors is reviewed by the Navy, Navy RASO, DTSC, and CDPH. It is also reviewed by the City of San Francisco, as the city has been and will be the primary recipient of the land at NAVSTA TI. Ms. Noble added that CDPH is very active in the Navy's radiological investigation program at NAVSTA TI. CDPH collects independent samples, performs their own scans, and uses independent laboratories to evaluate the data.

Ms. Maloof opened the floor to the RAB members for questions and comments related to the presentation. Nathan Brennan (RAB member) said the outfalls at TI should be radiologically scanned. Ms. Noble confirmed that the pipes leading to and from the wastewater treatment plant at TI were radiologically scanned. Sediment in the historical wastewater treatment plant infrastructure was also sampled.

Ms. Smith asked if the Navy used Phase I protocols to determine where to conduct radiological testing. Ms. Cardoso said the Navy is following the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) process at NAVSTA TI. The process for identifying radiologically impacted areas is comparable to the preliminary assessment/site investigation step in CERCLA. Ms. Smith asked why additional documentation was reviewed. Ms. Bacey said her understanding is that CDPH had concerns and asked the Navy to gather more information.

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Ms. Smith said the conceptual site model indicates items, such as deck markers, would most likely be found in the disposal areas. However, people do not always follow protocols, and she asked if the Navy has looked in other areas, outside of known disposal areas or the areas identified in the HRASTM, for radiological items. Ms. Bacey said her understanding, though she would have to confirm this statement, is that CDPH conducted surveys in all of the open space on TI, not just in Site 12.

Ms. Smith asked to what depth these radiological surveys reach. Ms. Noble said the depth of survey depends on the equipment used, but generally 6 to 9 inches below ground surface. Ms. Noble said that in areas like the SWDAs, the material is excavated first, then spread on a screening pad to be scanned. Ms. Smith said she is interested in the depth of investigation in all scanned areas excluding the SWDAs. Ms. Noble said that information is site-specific, and the reports associated with each site scanned will detail the instrumentation used and the exact depth to which the Navy is confident the instrumentation reached.

Ms. Smith said she recalls a dump-loading site that was previously used during environmental work, where soil was stored and then loaded onto a hauler. She believes the site was located near the area of Site 24 and that the Navy has not radiologically scanned that site. Ms. Smith asked if CDPH had scanned that area. David Clark (Navy) said the area was a soil transfer area and it was part of Lot 69. He confirmed the area was radiologically scanned.

Ms. Maloof opened the floor to the community for questions and comments related to the presentation. Sheridan Noelani Enomoto (Greenaction) said she heard a statement about background characterization. Ms. Enomoto asked if there is a way to access a full background characterization for all of TI. Ms. Noble said background information is available in various documents for each site. The information repository at the San Francisco Main Public Library maintains those documents.

Ms. Enomoto asked how residents are being informed of the work that is currently going on in Site 12. Ms. Cardoso said before the Navy begins field work in a residential area they issue a work notice. The work notices contain information about where the work will be, traffic routes that may be impacted, and appropriate contact information. Ms. Enomoto asked if the work notices are provided in languages other than English. Ms. Cardoso said work notices are often provided in both English and Spanish.

Steve Zeltzer (United Public Workers for Action) asked how the Navy knows that testing done on NAVSTA TI by Tetra Tech is accurate. He noted Tetra Tech has been accused of falsifying data at the former Hunters Point Naval Shipyard, and they have staff currently in jail for this falsification. Ms. Cardoso said the contractor company involved in the falsification of data at Hunters Point Naval Shipyard is a subsidiary to Tetra Tech called Tetra Tech EC. That company

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performed a limited amount of work at NAVSTA TI. Ms. Cardoso said the Navy knows exactly what work Tetra Tech EC did at NAVSTA TI. The Navy has reviewed any decisions made based on that work and found them to be sound. There is no information to suggest that any data at NAVSTA TI was falsified or is suspect for any reason.

Mr. Zeltzer said the laboratory TestAmerica has also been accused of falsification and TestAmerica has analyzed samples for NAVSTA TI. He asked if the Navy is aware of what work TestAmerica has done for NAVSTA TI and if the Navy is confident with those results. Ms. Cardoso said she is unable to speak to specific work that TestAmerica has done at NAVSTA TI. However, they are a large laboratory that does work across the country. Therefore, while it is likely they have done some analytical work at NAVSTA TI, the Navy has no reason to question any of the work that TestAmerica performed.

Mr. Zeltzer asked if the Navy has conducted any health surveys of residents on TI to measure statistics of those with cancer or other illnesses as a result of living on TI. Ms. Cardoso said the Navy itself does not conduct health surveys. However, there are agencies tasked specifically with the responsibility for protecting public health, and they have done surveys. The California Cancer Prevention Institute and the Agency for Toxic Substances and Disease Registry (ATSDR) conducted surveys. Their results indicated that the number and type of illnesses on TI did not differ from those of the greater population. Ms. Cardoso added that she is not a public health officer. She recommended that anyone who is concerned about his or her own health should contact the San Francisco Department of Public Health.

Shelby Hall asked if the Navy tested the buildings on Flounder Court. Ms. Cardoso said Flounder Court is within Site 12, which was tested by the Navy with CDPH oversight. Ms. Bacey added that the surveys were conducted from 2011 to 2013 and can be found on DTSC's Envirostor website.

Melanie Williams said she has lived on TI for 20 years. Ms. Williams said the Navy should clean up the island and consider not just the redevelopment, but also the people who have been living here for a long time. Ms. Williams said she also wants help for the current residents so they have a place to stay when redevelopment occurs.

Carol Harvey (journalist) said her understanding is that a reporter named Matt Smith found cesium-137 near some of the buildings associated with the former radiation training schools on NAVSTA TI. Because of that finding, CDPH requested that the Navy do further radiological investigations. Ms. Harvey asked why Ms. Noble did not specifically say in her presentation that CDPH requested the additional work that was done for the HRASTM. Ms. Bacey said she cannot say with certainty that the work was done because CDPH requested it be done.

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Her understanding was that there was a mutual agreement from all parties that a reevaluation be conducted.

Ms. Harvey asked if the Navy is aware of people who have gotten sick or died due to contamination on NAVSTA TI. Ms. Cardoso said the Navy is not aware of any such instances related to contamination. The Navy conducts its activities with oversight from several regulatory agencies and public health officials have been involved. While the Navy is not an agency that conducts health studies, the Navy would be informed if the health studies of other agencies found an issue.

New Business—Co-Chair Announcements, Future Agenda Items, and RAB Discussion Items

Ms. Maloof asked Alice Pilram (RAB Community Co-Chair) for any announcements or future agenda items. Ms. Pilram said the next RAB meeting is noted incorrectly on tonight's agenda, and will actually be held on September 18, 2018. Ms. Cardoso said the presentation for the next agenda will likely focus on Site 12 because there are several projects occurring for that site.

The floor was opened to additional RAB comments or questions. Ms. Smith said she provided comments on the 2017 Groundwater Monitoring Program, but she omitted one item. She agrees with DTSC that the cleanup levels for lead should be 80 milligrams per kilogram (mg/kg) rather than 400 mg/kg.

Ms. Smith said she is still unclear about whether the Navy went out to Site 24 to locate the wells that could not previously be found. She said she thought there were five wells and it appears the Navy only searched for three. Ms. Smith also said she is not aware if the required documentation for removing these wells was ever submitted to the Water Board. Ms. Bacey said the Navy presented a document listing wells they would like to properly destroy and DTSC and the Water Board reviewed and approved that list. Ms. Bacey added that she recalls there were three sentinel wells at Site 24 to be destroyed, not five. Ms. Smith said her concern is that the wells were cemented over, rather than being properly destroyed. Ms. Bacey said the Navy will have to find those wells and properly destroy them.

Public Comment Period

Ms. Maloof opened the floor to public questions and comments. Questions and comments were timed to be a maximum of three minutes to allow everyone time to speak, and to ensure the agenda can be completed within the allotted time.

Lotus Yee Fong (Sierra Club) said she would like a more specific term to be used, because "low-level radiation" is ambiguous. Ms. Fong asked for information on the reasons for the closing of the TI Elementary School and if there are known health effects to the children there. Ms. Fong said she moved to San Francisco in 1982 and her children were bussed to the TI Elementary School.

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Ms. Enomoto asked to receive the RAB agenda prior to future RAB meetings. Ms. Cardoso said the agenda was published two weeks before the meeting, as well as emailed to the community email list. Ms. Enomoto said she did not see the agenda; Ms. Cardoso said the Navy will make sure Ms. Enomoto is on the mailing list.

Ms. Enomoto said she would like to remind the group that the RAB exists to inform the community. She feels the community has the right to hold the RAB accountable. In addition, Ms. Enomoto said radiation is not a light topic of discussion and many people at this meeting go home to a location other than TI. Everyone should consider the people who actually live on TI. Ms. Enomoto said the public pays the salaries of the people at this meeting and they have the right to hold them accountable.

Mr. Zeltzer said Hunters Point and NAVSTA TI are being developed so multimillion-dollar condominiums can be built on the property. He said developers are hoping to get rid of poor people who live on these bases. He feels the radiation and health hazards at Hunters Point and NAVSTA TI have been covered up by the San Francisco Department of Public Health and by the Occupational Safety and Health Administration (OSHA). He added that he wants to know why OSHA has not been investigating at TI.

Mr. Zeltzer said this cleanup is largely fraud committed against the American people. He added that he does not expect the redevelopment of NAVSTA TI to be completed because of rising water levels, which will result in the island being underwater. Mr. Zeltzer said he feels the large companies involved in the cleanup and redevelopment have conspired to make sure this redevelopment happens, regardless of the damage it may cause to people. Mr. Zeltzer reiterated that the cleanup is a fraud and the people involved should be held accountable.

Ms. Fong said she has concerns about radiation and does not trust a developer who would want to build on NAVSTA TI. She provided some background on San Francisco politics and said the sailing school in the TI marina is being pushed out, which affects public school children who utilized that sailing center. Ms. Fong asked that real scientific expertise about radiation be used for cleanup and redevelopment decisions.

Kazmi Torii said the cleanup at Hunters Point was almost all fraud, so cleanup at NAVSTA TI is probably also fraudulent. She said the people living on TI are getting sick, and asked how people can trust that the cleanup at NAVSTA TI is 100 percent correct and how can they trust the presentation given tonight.

Ms. Pilram said she wanted to make it clear that the people on the RAB are unpaid volunteers. Two members of the RAB live on TI and have for many years. Ms. Pilram added that NAVSTA TI is not a Superfund site, meaning it is not on the U.S. Environmental Protection Agency's National Priority List.

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Adjournment

The next RAB meeting will be Tuesday, September 18, 2018. The meeting was adjourned at 8:54 p.m.

Action Items

There were no action items recorded during this meeting.

19 June RAB Meeting Handouts

- Attachment A: NAVSTA TI RAB Meeting No. 194 Agenda
- Attachment B: Radiological Program Overview and Update
- Attachment C: Document Tracking Sheet
- Attachment D: Field Schedule

ENVIRONMENTAL RESTORATION ADVISORY BOARD MEETING AGENDA

NAVAL STATION TREASURE ISLAND
Tuesday, 19 June 2018
Building One, Treasure Island
MEETING NO. 194

 VVI LL.LJIVII	RFMARKS	AIVL	ACH INDA	MI VII VV

7:00 – 7:10 Welcome, Introductions, Meeting Guideline Review

Marsha Maloof, Meeting Facilitator

7:10 - 7:15 RAB Discussion Items and Agenda Review

Alice Pilram, Community Co-Chair

II. OLD BUSINESS

7:15 - 7:25 RAB Meeting Minutes Approval Meeting 193

Rebecca Cardoso, Navy Co-Chair

7:25 - 7:35 BRAC Cleanup Team Update

Nina Bacey, DTSC and Myriam Zech, SFRWQCB

III. NEW BUSINESS

7:35 – 7:45 Citizen's Advisory Board Update

Becky Hogue, RAB member

7:45 - 8:30 Radiological Program Update

Radiological Affairs Support Office

Presentation Q&A: RAB

Presentation Q&A: Community

8:30 - 8:40 Break

8:40 – 8:45 Co-Chair Announcements and Future Agenda Items

Alice Pilram, Community Co-Chair and Rebecca Cardoso, Navy Co-Chair

IV.COMMENTS ON NON-AGENDA ITEMS

8:45 - 9:00 Public Comment Period

Process: Members of the public may make comments for up to three minutes.

9:00 Adjourn

Next Regular Meeting: 7:00 pm Tuesday, 11 September 2018 *NOTE DATE CHANGE*

Location: To Be Announced

Next Treasure Island Citizen's Advisory Board (CAB) Meeting: See the web site for latest dates and times for future meetings: www.sftreasureisland.org

Navy BRAC Web Site: http://www.bracpmo.navy.mil/NSTI

Navy San Diego Office Address:

Navy BRAC PMO West 33000 Nixie Way Building 50, Attention Rebecca Cardoso San Diego, CA 92147 Email: rebecca.cardoso@navy.mil

Direct phone number (619) 524-5795 Local phone number: (415) 308-1458



Naval Station Treasure Island Radiological Program Overview and Update

Kimberly Noble, Radiological Affairs Support Office, NAVSEA *June 19, 2018*

Presentation Overview



This presentation summarizes the radiological program at Treasure Island, including:

- Development of the Historical Radiological Assessment (HRA) Document and Supplemental Technical Memorandum
- Work Performed to Date
- Future Planned Surveys & Cleanup
- Regulatory Oversight and Data Validation Process

What is General Radioactive Material (G-RAM)? What is a Historical Radiological Assessment (HRA)?



- G-RAM is associated with low-level radioactive materials, objects, sources, and/or waste.
 - Examples: radioluminescent paint, welding rods, optic shops, smoke detectors, exit signs, and many other objects/uses.
 - G-RAM is NOT associated with nuclear testing and weapons or the Navy's Nuclear Propulsion Program.
- The HRA is a research document summarizing data, documents, and literature associated with G-RAM.
 - The Navy's primary document that presents a comprehensive radiological history of G-RAM at a base.
 - Identifies areas for further surveys.

2006 HRA; Work completed 2006 – 2014



Building 233 Area (Training)

- Building demolished (2011)
- Sewer lines excavated (2016)
- Hundreds of samples and swipes
- Final Status Survey Report and Radiological Unrestricted Release Recommendation (RURR) Letter issued by CDPH in 2015

Buildings 343 & 344 (Training)

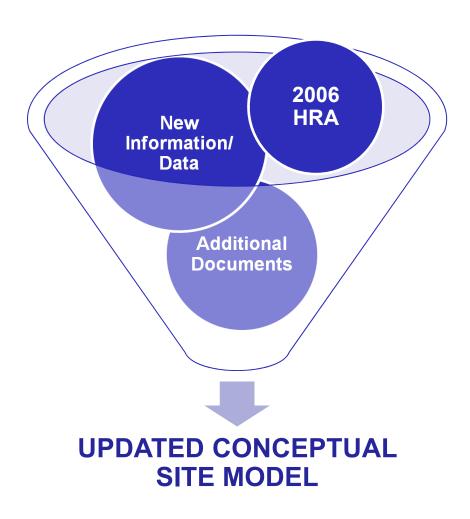
- Dozens of samples Extensive scanning No residual radioactivity
- Final Status Survey in 2008
- RURR in 2009

Site 12 Solid Waste Disposal Areas

- Performed Radiological Screening at excavations starting in 2007
 - Westside Drive
 - Bayside
 - North Point
 - Bigelow Court Final Status Survey for portion of site 2015 RURR 2016

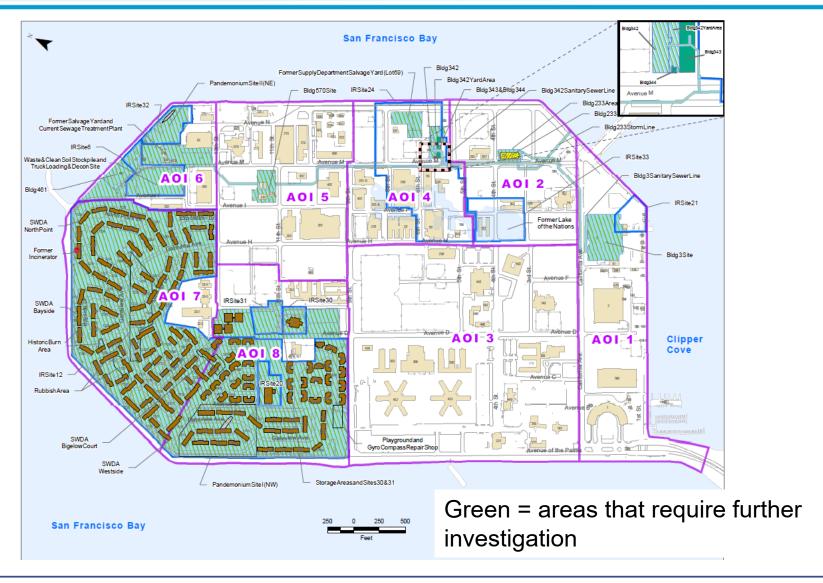
2014 HRA – Supplemental Technical Memorandum (HRASTM)





2014 HRA Supplemental Technical Memo

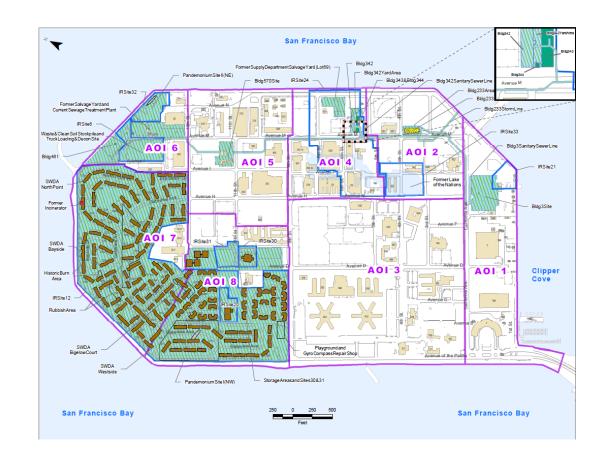




Completed Radiological Work Overview



- Buildings 343 & 344
- Building 233 (and associated piping)
- Building 3
- Force main
- Wood stave pipe
- Site 20
- Site 30 and parcels
- Site 31



Completed Radiological Work



Building 3 Ship Repair and Optical Shop

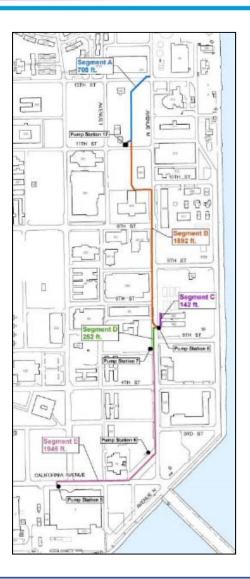
- Dozens of samples; scanning performed
- No residual radioactivity
- Final Status Survey (FSS) complete in August 2013

Force Main

- Dozens of samples and scanning
- No residual radioactivity
- No Further Action (NFA) 2016

Wood Stave Pipe

- Dozens of samples
- No residual radioactivity
- RURR 2016

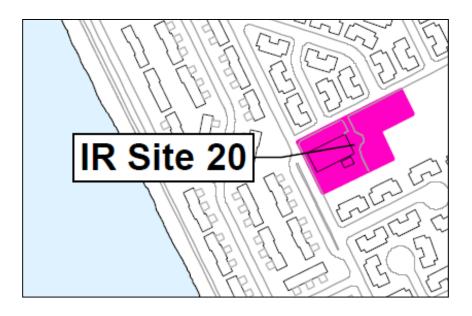


Completed Radiological Work (cont'd)



• Site 20

- Historic petroleum and recycling site
- Surrounded by IR Site 12
- Dozens of samples and swipes
- No residual radioactivity
- RURR in 2018



Completed Radiological Work (cont'd)



Site 30

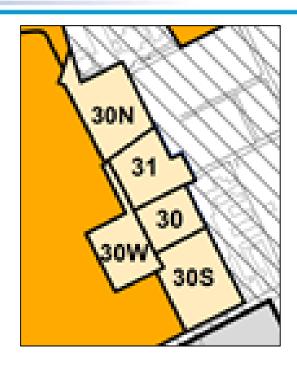
- 100% of surface surveyed, 200 samples collected
- Borings dug to collect samples under building
- No residual radioactivity
- RURR issued by CDPH

Parcels 30 North and 30 South

- 160+ samples collected
- No residual radioactivity

Site 31 - Former Storage Yard

- Excavated buried construction and burned debris (likely associated with Expo)
- Outside of excavations, 62 soil samples collected
- 100% of surface surveyed
- All Final Status Survey samples below release criteria
- RURR issued by CDPH



Radiological Work Under CDPH Review



Parcel 2 – Wastewater Treatment Plant/Building 461

- Over one hundred samples collected
- No residual radioactivity
- Final Status Survey Report (FSSR) to be submitted June 2018

Site 6 – Former Fire Training Facility

- Over one hundred samples collected
- No residual radioactivity
- FSSR submitted June 2014

Site 32 – Training & Storage

- Site 32A STRUCTURES
 - -Dozens of samples collected no residual radioactivity
 - -FSSR submitted
- Site 32B LAND SURFACE
 - —A Final Status Survey will be performed and reviewed by CDPH

Radiological Work Under CDPH Review (cont'd)



Site 24 – Lot 69 and Building 342

- Dozens of samples and swipes
- No residual radioactivity
- FSSR complete



Radiological Program – Site 12



- Hundreds of samples
- Hundreds of hours of scanning
- SWDA Debris Removal
 - Thousands of cubic yards
- Open Space Surveys
 - Independent CDPH Surveys
- Building Surveys
 - Building slabs for occupied buildings in 2014
 - Unoccupied buildings completed in 2018
 - Independent CDPH Surveys



Summary of Site 12



• SWDAs

 99% of all radiological objects found to date were located within the SWDAs

Open Space

Approximately 13 objects found and removed

Building Survey

- 596 Units Surveyed - 3 Objects found and removed

Found Radioactive Commodities in SWDAs





Site 12 Feasibility Study Addendum



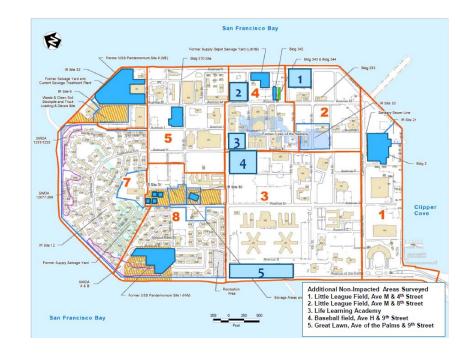
- Provide alternatives for radiological and chemical cleanup.
- Update risk assessments

2018	2019
Field work for additional site characterizations (June/July)	Proposed Plan
Draft FS Addendum (October)	Public Meeting
Final FS Addendum (December)	Record of Decision

Radiological Regulatory Oversight and Data Validation Process



- Radiological data is reviewed by:
 - Navy BRAC staff
 - Navy Radiological Affairs Support
 Office
 - California Department of Public Health Environmental Management Branch
 - California Department of Toxic
 Substances Control
 - Consultants for City of San Francisco
- Independent scanning and sampling performed by CDPH



Naval Station Treasure Island Environmental Cleanup Program Document Tracking Sheet June – November 2018

			DRAFT			RTC			FINAL							
			Agency Comments													
Item	Document Title & Information	CTO/DO	Draft to Agencies		Date Due	DTSC	DTSC WATER BOARD TIDA/TICD RAB OTHER		Preliminary RTCs to Agencies		Resolve and Concur on RTCs		Final to Agencies		Comments	
	Radiological Reports		-							-				=		
	Site 12 NTCRA Phase III FSS Report	4														
1	RPM: Chris Yantos	0004	08/16/18		09/14/18					09/23/18		10/07/18		10/14/18		
	CTR: APTIM								_							
	Data Gaps WP to Support FS Addendum (SWDA, Radiological)	0														
2	RPM: Louie Cardinale	0000	12/07/17	~	01/29/18	~	Х	~		03/29/18	~	05/08/18	~	07/11/18		
	CTR: NOREAS															
	Site 12 Tech Memo – Path to Free Release	4														
3	RPM: Chris Yantos	0014	07/09/18		08/10/18					09/07/18		10/05/18		10/21/18		
	CTR: APTIM Site 24 FSS Report								+							
	RPM: Dave Clark	0000	NA		NA					02/02/18	,	03/07/18	,	03/30/18	,	
	Dave diam	00	,		10/1					12. 02, 13		03/07/18		03/30/10		
	Northeast Corner FSS Report	0														
	RPM: Dave Clark	0000	NA		NA					04/02/18	~	04/19/18	~	06/15/18	~	
	Site 12		1		1		_									
	NTCRA Phase III PCSR	74	00 (00 (40		08/31/18					00/00/40		00/07/40		10/0//10		
4	RPM: Chris Yantos CTR: APTIM	0004	08/02/18							09/09/18		09/27/18		10/06/18		
	TCRA PCSR						H		-							
5	RPM: Chris Yantos	9000	07/20/18		08/19/18					09/17/18		10/16/18		11/17/18		
	CTR: CE2 Kleinfelder	0									L					
	RD/RAWP (Non-SWDA, Non-Radiological)															
6	RPM: Leo Larson	- 1	04/04/18	~	05/07/18	~	~	~	~	07/02/18		07/09/18		07/23/18		
	CTR: Gilbane			—				_	_		╄					
_	FS Addendum (SWDA, Radiological)		00/00/40		40 /04 /40					44 (07 (40		40.05.40		04 /00 /40		
7	RPM: Louie Cardinale CTR: NOREAS	i	08/30/18		10/01/18					11/07/18		12/05/18		01/02/19		
	Site YF3											l		l		
	Baseline Ecological Risk Assessment (BERA)										Ī					
8	RPM: Mukesh Mehta	0103	11/01/17	~	01/05/18	~	v	-	-	03/07/18	~	07/18/18		07/25/18		
	CTR: Battelle	- 0	11,01,11										Ш			
	Other Reports															
	2016 Basewide GW Monitoring Report	0								10/26/17	~					
	RPM: Mukesh Mehta	0000	07/26/17	~	08/25/17	~	~	~ ~	~	03/07/18	~	03/21/18	~	04/19/18	~	
	PM: Patrick Hamner, Trevet Finding of Suitability to Transfer (FOST) 7															
9	RPM: John Hill		12/07/17	ļ	01/26/18	,	х	,		04/10/18	,	06/22/18		06/29/18		
,			.2,0//1/		5.,20,10					5., 10, 10		33,22,10		00,27710		
	2017 Basewide GW Monitoring Report	(П	\neg	T		T					
10	RPM: Mukesh Mehta	0000	05/16/18	~	06/18/18					07/18/18		08/20/18		09/20/18		
	CTR: NOREAS	_					Щ	_	-	1	1					
4.4	2018 Site Management Plan	00	00/02/10		00/02/10					10/01/10		10/20/10		11/10/10		
11	RPM: Dave Clark CTR: Adanta	0000	08/03/18		09/02/18					10/01/18		10/30/18		11/13/18		
	UST 240 Closure Request	+		H		H	H	-	+	1	1		-		Н	
13	RPM: Mukesh Mehta	0058	07/20/18		08/20/18					09/10/18		10/08/18		10/20/18		
	CTR: TriEco-Tt	ŏ														
	Basewide Well Destruction Report	0		П												
14	RPM: Mukesh Mehta	0000	08/17/18		09/17/18					10/08/18		11/05/18		11/17/18		
	CTR: Trevet						Ц									

Naval Station Treasure Island Environmental Cleanup Program Document Tracking Sheet June - November 2018

- Production or review of document is complete. Abbreviations:
- Received notification of no comments or comments deferred to other agency.

Grey shading indicates the document is finalized.

Blue shading indicates agency review comments are due within the next 60 days or are outstanding.

Yellow shading indicates documents that will be issued draft or final within the next 60 days.

CDPH = California Department of Public Health CTO/DO = Contract task order/delivery order

CTR = Contractor

DTSC = Department of Toxic Substances Control

FS = Feasibility study

FSS = Final status survey

GW = Groundwater

NA = Not applicable

NTCRA = Non-time critical removal action

PCSR = Post-construction summary report

PP = Proposed plan

RACR = Remedial action completion report

RAWP = Remedial action work plan

RD = Remedial design

ROD/RAP = Record of decision/remedial action plan

RPM = Remedial project manager

RURR = Radiological Unrestricted Release Recommendation

RTC = Response to comments

SAP = Sampling and analysis plan

SWDA = Solid waste disposal area

TBD = To be determined

TCRA = Time-critical removal action

TICD = Treasure Island Community Developers

TIDA = Treasure Island Development Authority

TSP = Task specific plan

Water Board = Regional Water Quality Control Board

WP = Work plan

Naval Station Treasure Island Navy Field Schedule June – November 2018

Item	Activity and Investigation Area	Field Da	ates	Navy RPM	Complete				
	Site 12	•	-						
	Time-Critical Removal Action (Gateview, Discrete Areas, Halyburton)		7/25/16 5/11/18	Chris Yantos	•				
1	Data Gaps Sampling to Support FS Addendum (SWDA, Radiological)		7/16/18 8/06/18	Louie Cardinale					
2	Remedial Action (Non-RAD, Non-SWDA)		<mark>7/30/18</mark> 9/28/18	Leo Larson					
	Site 24								
	Remedial Action - Performance Monitoring (5th Quarterly)		3/21/18 3/23/18	Mukesh Mehta	•				
3	Remedial Action - Performance Monitoring (6th Quarterly)		6/20/18 6/22/18	Mukesh Mehta					
4	Remedial Action - Performance Monitoring (7th Quarterly)		9/10/18 9/14/18	Mukesh Mehta					
Basewide									
	Basewide Groundwater & Soil Gas Monitoring - IR Site 6, 12, 21, and 24		3/19/18 3/22/18	Mukesh Mehta	•				
5	Basewide Groundwater & Soil Gas Monitoring - IR Site 6, 12, 21, and 24		6/18/18 6/22/18	Mukesh Mehta					
6	Well Destruction at Site 21 and 24		6/11/18	Mukesh Mehta					

Abbreviations:

Field work is completeRPM Remedial project manager

TBD To be determined

Yellow shading indicates field activities that will start or finish within the next 60 days.

Grey shading indicates field activities are complete.